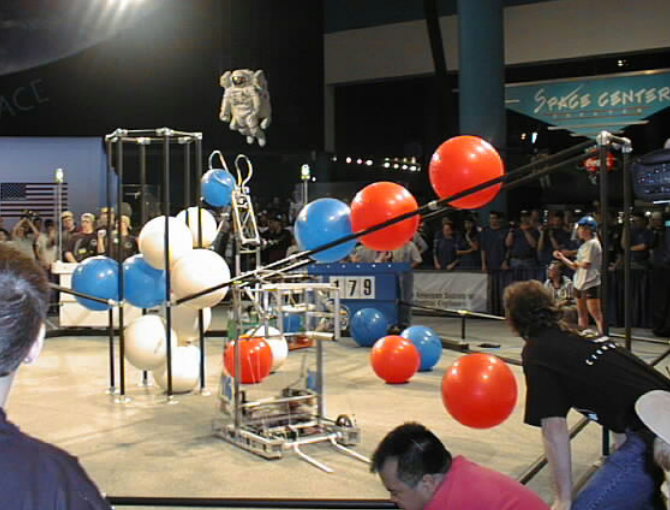


Backup



Our FY 2011 Plans

- Continue supporting the program through the *SMD Robotics Alliance Project*
- Sponsor >300 FRC teams
- Mentor highly diverse set of >10,000 students
- Sponsor/host 5 regional competitions
- Continue hands-on participation by engineers and mentors from every NASA center
- Expand community outreach
- Show off NASA capabilities
- Investigate NASA scholarship options
- Our annual challenge: Can the centers (with engineers and technologists) beat the Headquarters team (with bureaucrats and accountants)?



College/University Participation



MICHIGAN STATE
UNIVERSITY



BOSTON
UNIVERSITY

WAYNE STATE
UNIVERSITY



PURDUE



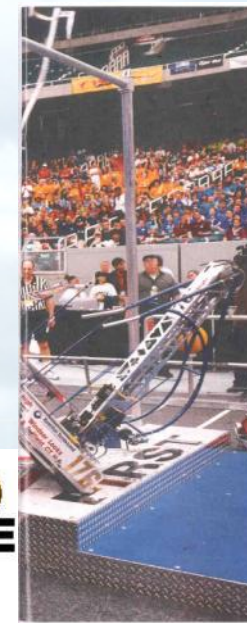
NJIT NEW JERSEY INSTITUTE OF TECHNOLOGY

UC DAVIS
UNIVERSITY OF CALIFORNIA



 UNIVERSITY OF DENVER

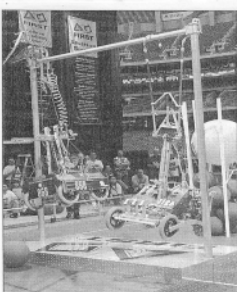
Discover



BY BRAD LEMLEY PHOTOGRAPHY BY BETH PERKINS

Student-built robots vie for the high bar at the First Robotics Competition nationals at the Georgia Dome in Atlanta. TPS, by Mississippi's Gulfport High School, is on the left; May Day, by Connecticut's Guilford and Windham Locks High Schools, is on the right.

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Boo! You've won a robotic competition!

May 2, 2000

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THOMAS G. DONLAN

An inventor takes on nothing less than the transformation of American youth

At least 10,000 high school and middle-school engineers, mostly mentored and coached by adult engineering professionals, built robots and brought them to the stadium to enter a unique game.

FIESTA is a foundation whose main objective is "for Inspiration and Recognition of Science and Technology." Dean Karnen, engineer and inventor, created it as a tool for peaceful revolution. He is appalled by the American hero-worship of professional sports figures and entertainment personalities, and the rules of his year's game. The FIESTA competition is not a derisive derby—robots must maneuver around obstacles and score points by carrying objects and placing them in goals. And they work in teams—it's never "every robot for himself." Every year the teams have six weeks to design, build, test and practice operating their robots. They had to follow rules limiting the size, weight and cost of their robots. On deadline day, all robots had to be erected up and shipped to the site of one of FIESTA's 30 regional competitions.

"We have kids spending more years getting better and better at becoming a ball," says Kares, "which does not improve our quality of life." His eyes barely blink as he boldly states that the sponsor sports and television entertainment ought to have something else to sponsor—something that will improve the lives of youth and make America a richer place.

Trying to attract sponsors, I sell them the company ourselves. What you are good at is creating demand. Why don't you agree that you will make someone else's life more interesting? When you have made a great and entertaining." You need to give and entertain."

Making New Choices

Since there were no options for sponsors that made inventing look cool, Ka-

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Robotics Alliance Project (RAP)



- NASA Headquarters/Herndon High School robotics competition team invited to White House as the President presents the new STEM education “Educate To Innovate” initiative on November 23
- The team is one of 300 FIRST Robotics Competition teams supported by the NASA (SMD) Robotics Alliance Project.
- RAP is the largest sponsor of teams participating in the FIRST Robotics Competition, and a major sponsor of the BotBall and VEX robotics competition programs.
- NASA engineers at every NASA center participate with RAP-sponsored teams
 - Engineers directly mentor and work side-by-side with the students
 - Construction of the robot used as a vehicle to teach engineering practices
 - Working directly with ~1600 students on local “house teams” and indirectly with thousands more
- RAP repeatedly cited as example of excellent government-community collaboration to engage

Robotics Alliance Project (RAP)



- NASA Headquarters/Herndon High School robotics competition team will help the President present several new STEM education initiatives on Tuesday, November 10
 - The team is one of nearly 300 FIRST Robotics Competition teams supported by the NASA (SMD) Robotics Alliance Project.
 - RAP is the largest sponsor of teams participating in the FIRST Robotics Competition, and a major sponsor of the BotBall robotics competition program.
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The Games

The challenges are renewed every year.

For FRC in 2011 – In 2 minutes, robots play “bumpy soccer” by scoring goals over an obstacle-covered field, and then hang from the mid-field towers at the end for bonus points

